

SERVICE MANUAL Level 1&2

NOKIA 2630

RM-298/299



Transceiver characteristics:

Band:

RM-298: **EGSM:** Dual-band 900/1800MHz

RM-299: **GSM:** Dual-band 850/1900MHz

WCDMA: -----

Display:

LCD: 128x240 pixel TFT with 65k colors display

Camera:

Camera: VGA 300k pixel with 4x digital zoom

Operating System:

Series 40

Connections:

Wireless: Bluetooth

Connector: Easy Flash II Connector

Memory:

Transceiver with BL-4B Li-Ion battery pack

Talk time	Standby	Note
up to 6h	up to 13days	Depends on network parameters

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1. CHANGE HISTORY

Status	Version No.	Date	Comments
Draft	0.1	23.July.2007	Initial draft
Approved	1.0	24.July.2007	Approved

The purpose of this document is to help NOKIA service levels 1 and 2 workshop technicians to carry out service to NOKIA products. This Service Manual is to be used only by authorized NOKIA service suppliers, and the content of it is confidential. Please note that NOKIA provides also other guidance documents (e.g. Service Bulletins) for service suppliers, follow these regularly and comply with the given instructions.

While every endeavor has been made to ensure the accuracy of this document, some errors may exist. If you find any errors or if you have further suggestions, please notify NOKIA using the address below:

CMO Operation & Logistics
Training and Vendor Development
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Please keep in mind also that this documentation is continuously being updated and modified, so watch always out for the newest version.

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IMPORTANT

This document is intended for use by qualified service personnel only.

3. WARNINGS AND CAUTIONS

Warnings and Cautions

Please refer to the phone's user guide for instructions relating to operation, care and maintenance including important safety information. Note also the following:

Warnings:

1. CARE MUST BE TAKEN ON INSTALLATION IN VEHICLES FITTED WITH ELECTRONIC ENGINE MANAGEMENT SYSTEMS AND ANTI-SKID BRAKING SYSTEMS. UNDER CERTAIN FAULT CONDITIONS, EMITTED RF ENERGY CAN AFFECT THEIR OPERATION. IF NECESSARY, CONSULT THE VEHICLE DEALER/MANUFACTURER TO DETERMINE THE IMMUNITY OF VEHICLE ELECTRONIC SYSTEMS TO RF ENERGY.
2. THE HANDPORTABLE TELEPHONE MUST NOT BE OPERATED IN AREAS LIKELY TO CONTAIN POTENTIALLY EXPLOSIVE ATMOSPHERES, EG PETROL STATIONS (SERVICE STATIONS), BLASTING AREAS ETC.
3. OPERATION OF ANY RADIO TRANSMITTING EQUIPMENT, INCLUDING CELLULAR TELEPHONES, MAY INTERFERE WITH THE FUNCTIONALITY OF INADEQUATELY PROTECTED MEDICAL DEVICES. CONSULT A PHYSICIAN OR THE MANUFACTURER OF THE MEDICAL DEVICE IF YOU HAVE ANY QUESTIONS. OTHER ELECTRONIC EQUIPMENT MAY ALSO BE SUBJECT TO INTERFERENCE.

Cautions:

1. Servicing and alignment must be undertaken by qualified personnel only.
2. Ensure all work is carried out at an anti-static workstation and that an anti-static wrist strap is worn.
3. Use only approved components as specified in the parts list.
4. Ensure all components, modules screws and insulators are correctly re-fitted after servicing and alignment.
5. Ensure all cables and wires are repositioned correctly.

4. ESD PROTECTION

Nokia requires that service points have sufficient ESD protection (against static electricity) when servicing the phone.

Any product of which the covers are removed must be handled with ESD protection. The SIM card can be replaced without ESD protection if the product is otherwise ready for use.

To replace the covers ESD protection must be applied.

All electronic parts of the product are susceptible to ESD. Resistors, too, can be damaged by static electricity discharge.

All ESD sensitive parts must be packed in metallized protective bags during shipping and handling outside any ESD Protected Area (EPA).

Every repair action involving opening the product or handling the product components must be done under ESD protection.

ESD protected spare part packages MUST NOT be opened/closed out of an ESD Protected Area.

For more information and local requirements about ESD protection and ESD Protected Area, contact your local Nokia After Market Services representative.



5. CARE AND MAINTENANCE

This product is of superior design and craftsmanship and should be treated with care. The suggestions below will help you to fulfil any warranty obligations and to enjoy this product for many years.

- Keep the phone and all its parts and accessories out of the reach of small children.
- Keep the phone dry. Precipitation, humidity and all types of liquids or moisture can contain minerals that will corrode electronic circuits.
- Do not use or store the phone in dusty, dirty areas. Its moving parts can be damaged.
- Do not store the phone in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the phone in cold areas. When it warms up (to its normal temperature), moisture can form inside, which may damage electronic circuit boards.
- Do not drop, knock or shake the phone. Rough handling can break internal circuit boards.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the phone.
- Do not paint the phone. Paint can clog the moving parts and prevent proper operation.
- Use only the supplied or an approved replacement antenna. Unauthorised antennas, modifications or attachments could damage the phone and may violate regulations governing radio devices.

All of the above suggestions apply equally to the product, battery, charger or any accessory.

6. BATTERY INFORMATION

Note: A new battery's full performance is achieved only after two or three complete charge and discharge cycles! The battery can be charged and discharged hundreds of times but it will eventually wear out. When the operating time (talk-time and standby time) is noticeably shorter than normal, it is time to buy a new battery. Use only batteries approved by the phone manufacturer and recharge the battery only with the chargers approved by the manufacturer.

Unplug the charger when not in use. Do not leave the battery connected to a charger for longer than a week, since overcharging may shorten its lifetime.

If left unused a fully charged battery will discharge itself over time. Temperature extremes can affect the ability of your battery to charge.

For good operation times with Ni-Cd/NiMh batteries, discharge the battery from time to time by leaving the product switched on until it turns itself off (or by using the battery discharge facility of any approved accessory available for the product).

Do not attempt to discharge the battery by any other means. Use the battery only for its intended purpose. Never use any charger or battery which is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object (coin, clip or pen) causes direct connection of the + and - terminals of the battery (metal strips on the battery) for example when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

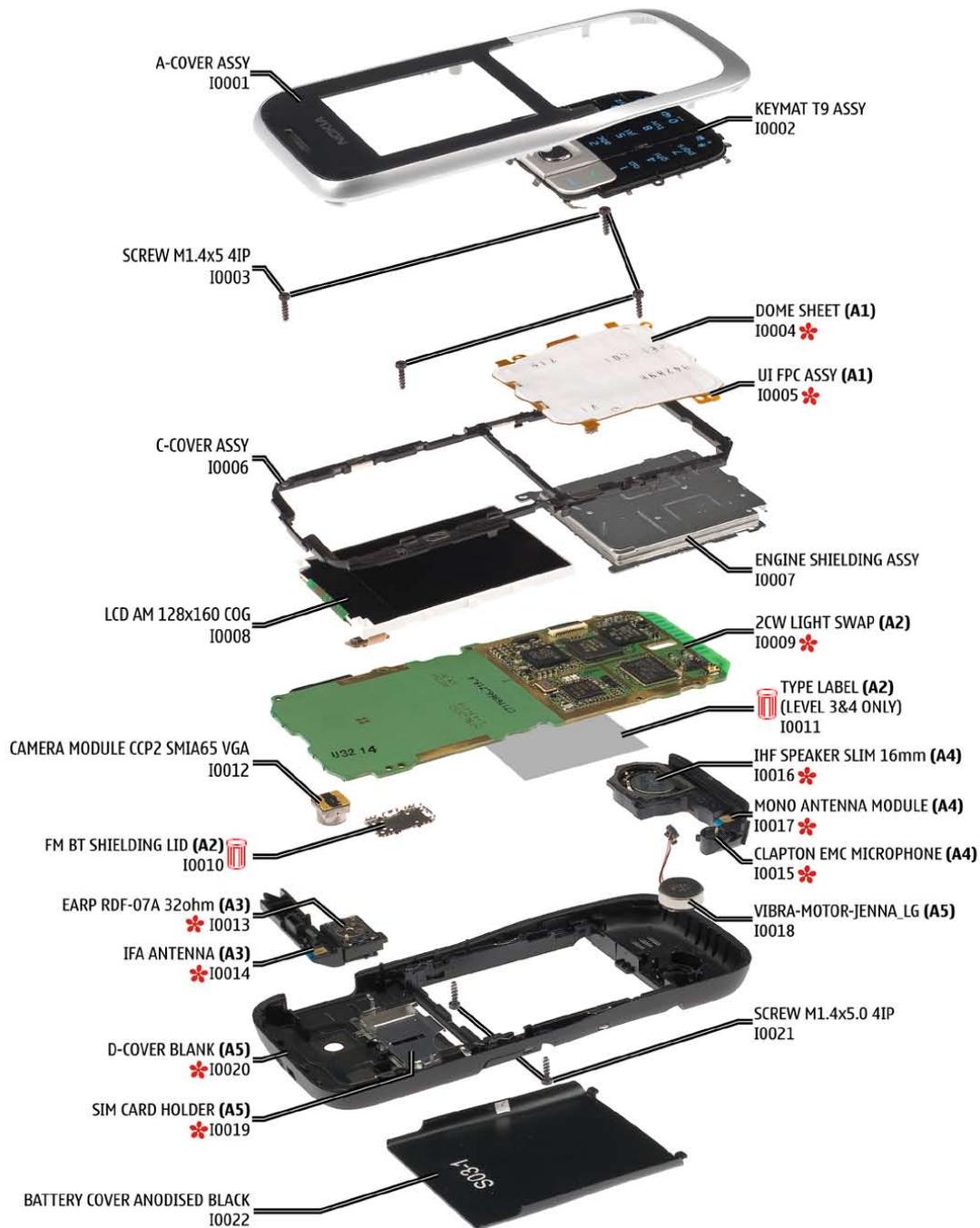
Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 15°C and 25°C (59°F and 77°F). A phone with a hot or cold battery may temporarily not work, even when the battery is fully charged. Batteries' performance is particularly limited in temperatures well below freezing.

Do not dispose batteries in a fire! Dispose of batteries according to local regulations (e.g. recycling). Do not dispose as household waste.

7. EXPLODED VIEW

See corresponding ITEM/CIRCUIT REF in the Spare Parts Service Bulletins on NOL.

2630 RM-298 / RM-299 EXPLODED VIEW



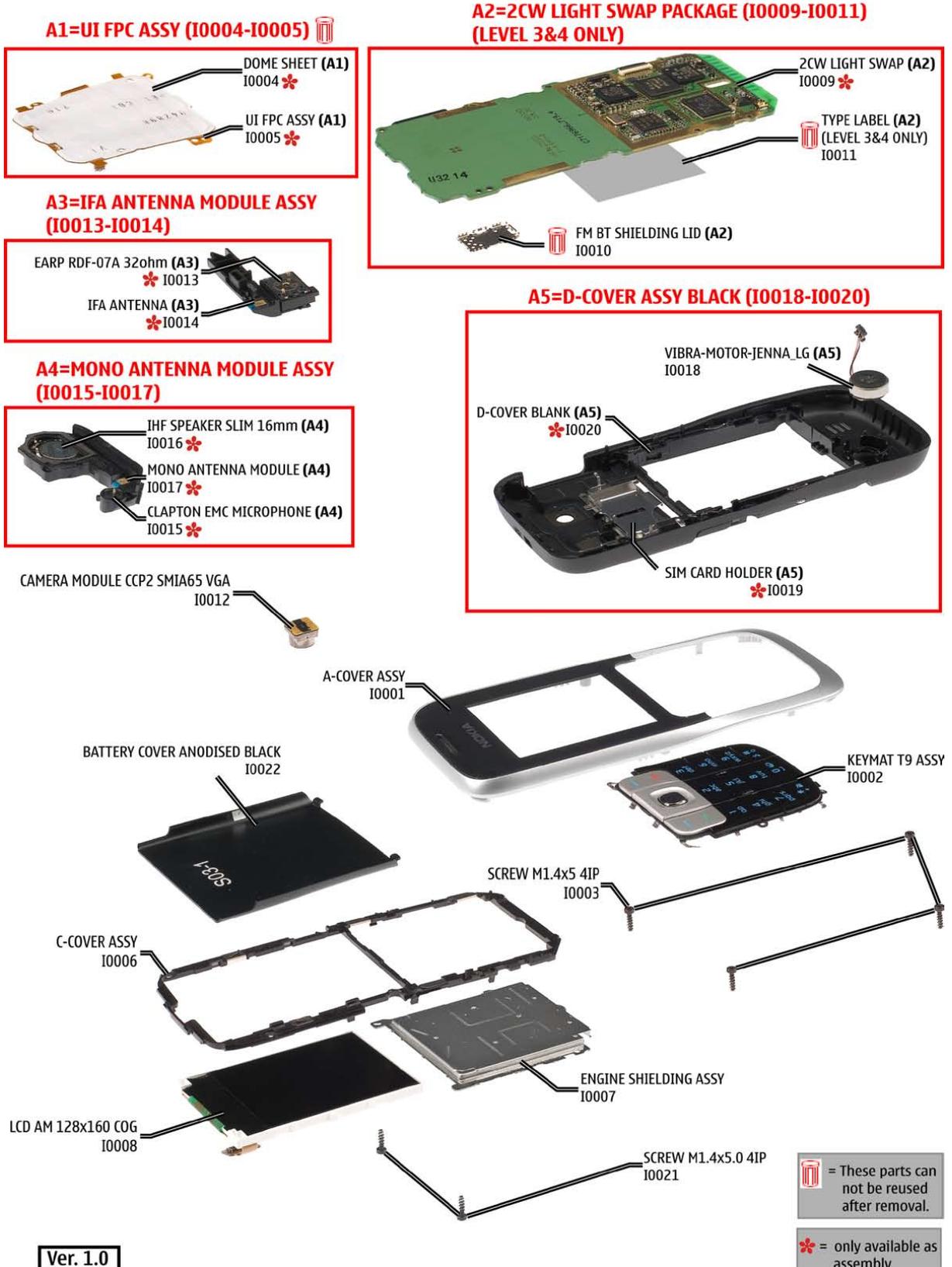
 = These parts can not be reused after removal.

 = only available as assembly

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8. SPARE PARTS OVERVIEW

2630 RM-298 / RM-299 SPARE PARTS OVERVIEW



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9. HANDLING WASTE / RECYCLING IN NOKIA REPAIR SERVICE

Please refer to the document

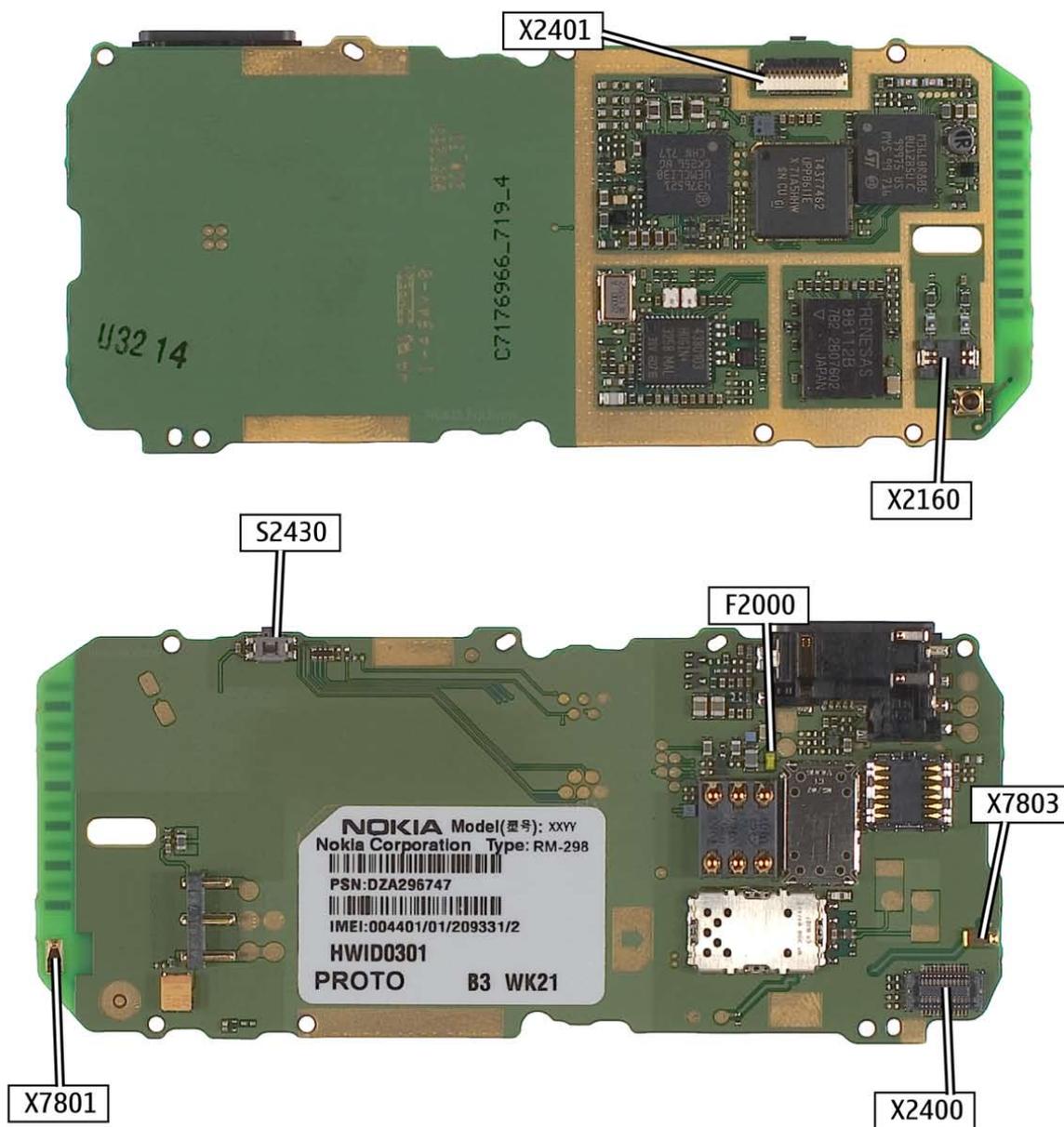
“Handling Waste in NOKIA Repair Service”

on your local delivery server e.g. NOL.

10.LEVEL 2 SOLDER COMPONENTS

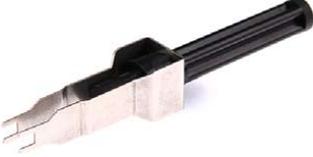
2630 RM-298 / RM-299 Components overview

Solder components only for LEVEL 2



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11.SERVICE TOOLS

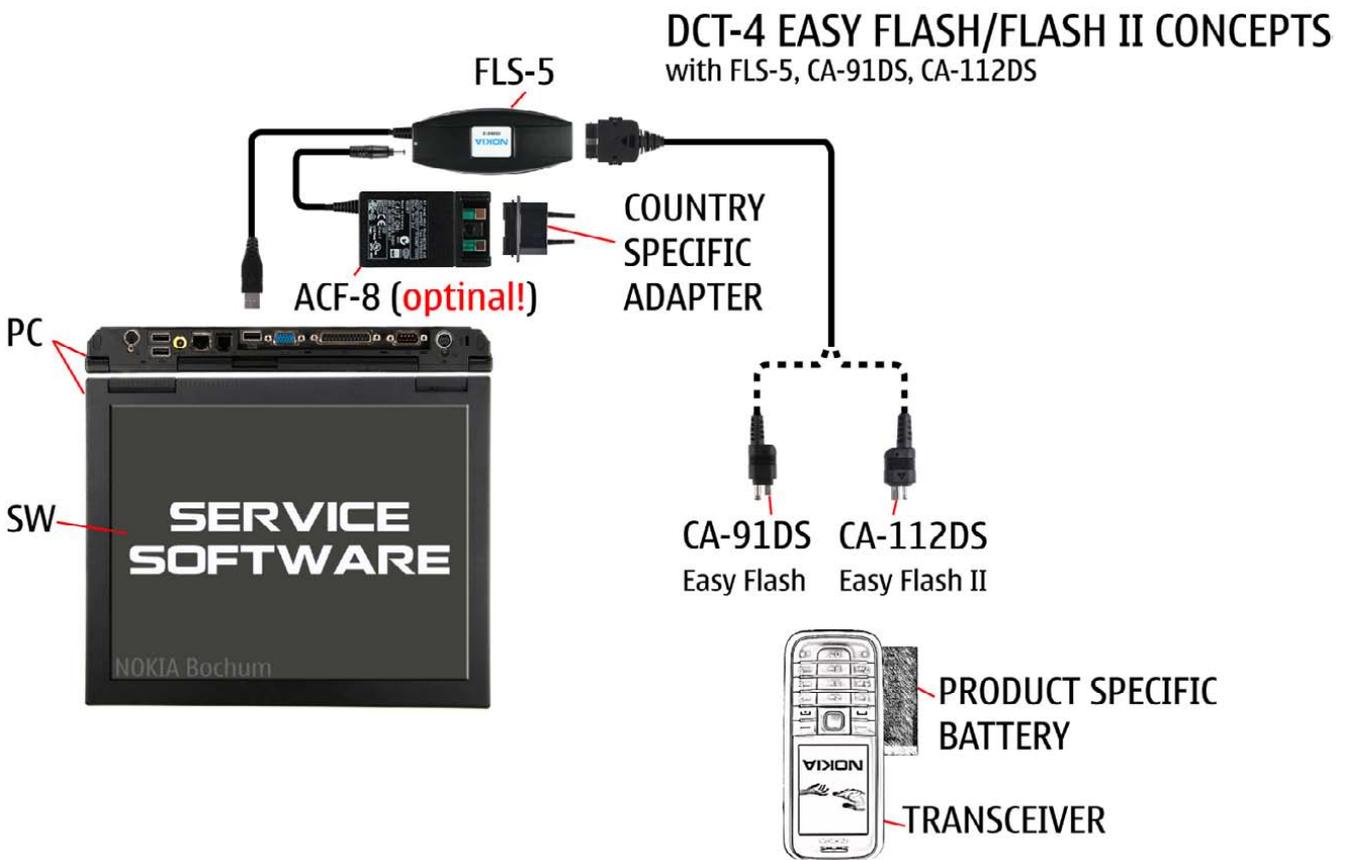
 <p>FLS-5</p> <p>FLS-5 incl. ACF-8, Driver and User Guide Dongle and flash device incorporated into one package, developed specifically for POS use.</p>	 <p>ACF-8 Universal Power Supply is used to power FLS-4S.</p>	 <p>Travel Charger AC-4 Small and lightweight charger for fast charging of your phone battery.</p>
 <p>CA-112DS 100cm</p> <p>CA-112DS Service Cable to connect the PC with the Easy Flash II connector.</p>	 <p>SS-88 Camera removal tool. One side is for disassembly, the other side for assembly.</p>	 <p>RJ-200 Soldering Jig</p>
 <p>Internal Battery BL-4B Inserted under the back cover, this Li-Ion battery provides power in a lightweight package.</p>		 <p>0772040 NMP Standard Toolkit (V2) For more informations refer to the Service Bulletin (SB-011) on NOKIA Online. Supplier or manufacturer contacts for tool re-order can be found in "Recommended service equipment" document on NOKIA Online.</p>

12.SW-UPDATE

Flash Concept – (Point of Sales)

To use FLS-5 Flash Dongle you have to follow the user guide inside the sales package. Please check always for the latest version of flash software, which is available on [NOKIA Online](#).

Choose the CA-112DS service cable.



13. UPPER BLOCK DISASSEMBLY



NOKIA 2630

Disassembly & Assembly hints

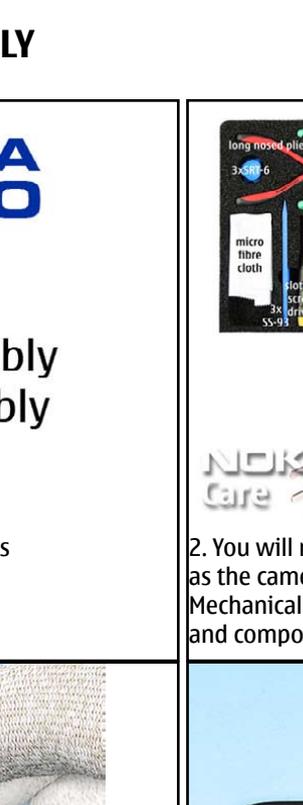
1. Nokia 2630 disassembly and assembly hints



long nosed pliers
3-581-6
side cutter
various Torx bits
bit holder
micro fibre cloth
ESD brush
stotted screw driver
3-581-3
SS-88
4x metal tweezers
screw holding
driver
torque screw driver
dental pick
scissors

+

2. You will need the Nokia Standard Toolkit version 2 as well as the camera removal tool SS-88. Also refer to the General Mechanical Guideline Video for additional hints about the tools and component handling.



3. Cover all sensitive surfaces with a protective film. Unlock and remove the C-COVER ASSY. Remove the battery if it is still inserted before going on.



2

1

4. Remove both Torx Plus size 4 screws in the order shown.



5. Gently pry open the clips of the A-COVER with the SRT-6...



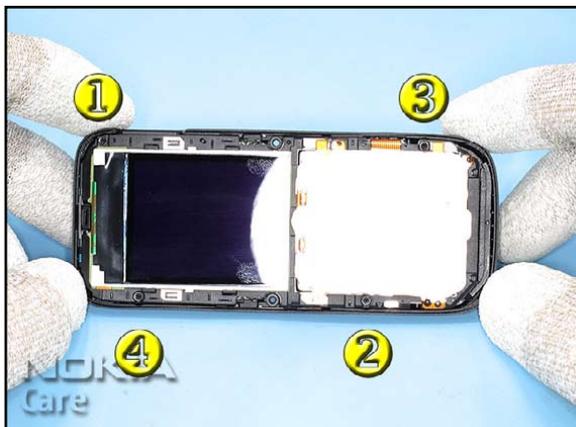
6....on both sides.



7. Now the A-COVER can be lifted up easily.



8. The KEYMAT can be lifted up.



9. Remove the 4 Torx Plus size 4 screws in the shown order.



10. Release the clips of the C-COVER ASSY.



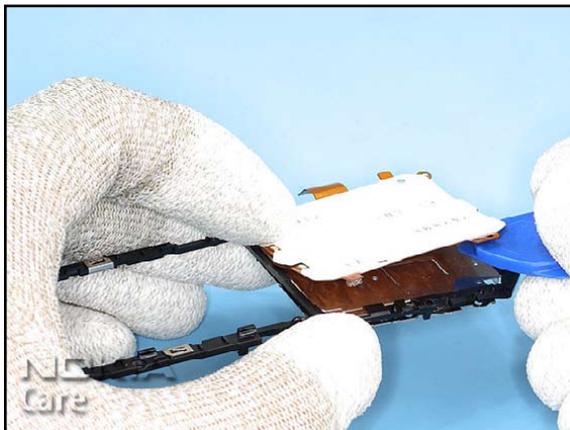
11. Carefully flip over the C-COVER ASSY now, keep in mind that the flex foil is still connected.



12. Be double careful while opening the connector with the SRT-6.



13. Now the parts can be separated.



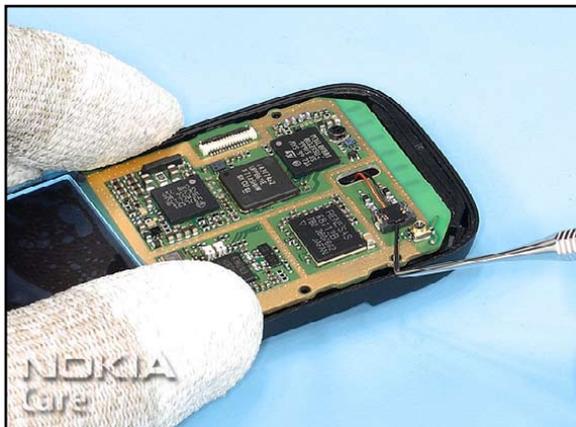
14. Lift up the glued in UI FPC ASSY with the SRT-6...



15. Now peel it up completely. Do not use it again. Remove any adhesive residues from the shield.



16. Separate the ENGINE SHIELDING ASSY from the C-COVER.



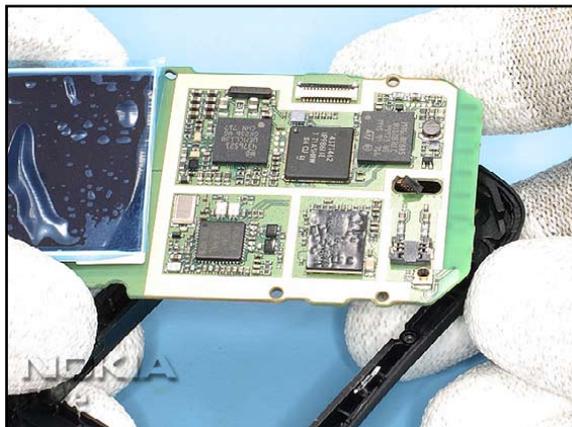
17. Carefully open the vibra connector with the dental pick.



18. Unlock the clips of the D-COVER with the SRT-6...



19. ...on both sides.



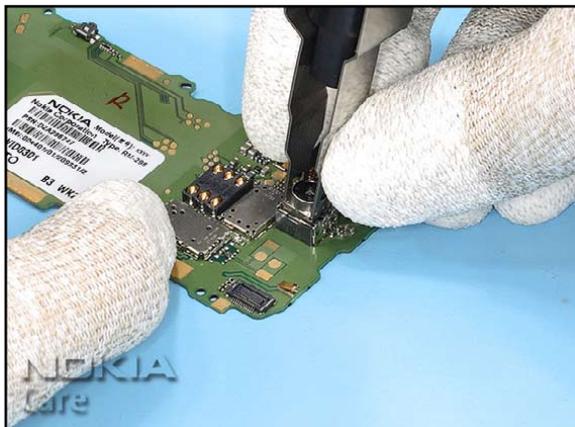
20. Slot the connector of the vibra trough the recess of the ENGINE MODULE.



21. Open the flex connector of the display with the SS-93.



22. Now these parts can be separated.



23. Lift out the CAMERA MODULE with the SS-88.

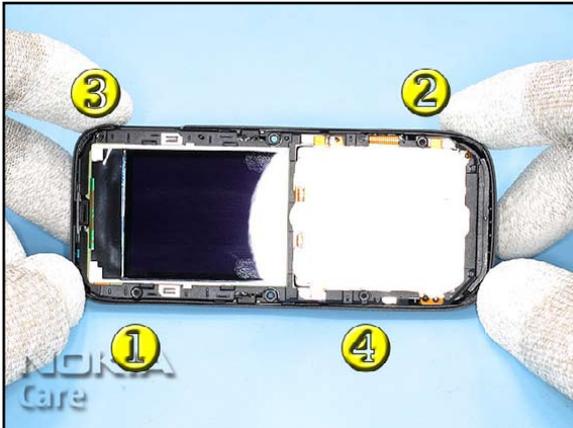


24. Careful lever out the glued in VIBRA MOTOR.



25. The adhesive gasket should stay at the VIBRA MOTOR. Mind that no adhesive residues remains in the cover before replacing a new VIBRA MOTOR. The disassembling procedure is now completed.

14.ASSEMBLY HINTS



1. Assembly Hints: Apply the torque of 15 Ncm to the four screws in the order shown.



2. Tighten these 2 screws with a torque of 15Ncm, too. Mind the screwing order.